

BEST AVAILABLE COPY**Please amend the specification, as follows:**

Please change paragraph [0010] which appears bridging page 3, line 19, through page 4, line 2, as follows:

"[0010] Upon impact with the target, the projectile breaks or shatters and leaves a heat signature on the target for up to several hours. Included with these heat chemicals may be optional chemilucent as taught in U.S. Patent 6,497,181. This heat mark may be placed into a lethal and non-lethal projectile (as taught in DAR2003-034). The present system allows heavy and light armor targets, vehicles, buildings and personnel to be marked without extensive damage to the target and without seriously injuring a person. The target may now be heat marked and chemilucifer (optional) marked."

Please change paragraph [0023] which appears on page 7, line 5, through line 19, as follows:

"[0023] FIG. 1 (FIGS. 1A, 1B) is a diagram of a 40 mm projectile 100 (projectile 100). FIG. 1A is a cut-away exploded view of projectile 100. Projectile 100 comprises a windshield 105 and a back end 110. Windshield 105 may be transparent or translucent and comprises, for example, polypropylene. In an embodiment, windshield 105 is opaque. In still another embodiment, the windshield 105 is made of non-heat conducting materials, or painted with non-heat conducting paint, or lined on the inside of the windshield with a non-heat conducting liner (not shown). The back end 110 comprises, for example, zinc. Heat chemicals 115 comprising, for example, calcium chloride and thickener hydroxyethyl cellulose, or cellulose acetate butyrate, are contained in bag 120. Bag 120 is may be comprised of low-density polyethylene. In an alternate embodiment, powdered metals or sodium acetate are or other salts may be used with the or in place of calcium chloride in 115. "

Please change paragraph [0024] which appears on page 7, line 20, through page 8, line 5, as follows:

" [0024] Liquid 125 comprising, for example, hydrogen peroxide and salt water possibly with and/or a mixture of water and/or salt water and/or propylene glycol are contained in bag 130. Bag 130 comprises, for example, polyester. Bag 120 and bag 130 are contained in containment bag 135. Containment bag 135 comprises, for example, 100 gauge nylon. During gun launch of projectile 100, bag 120, and bag 130 breaks, mixing liquid 125 with heat chemical 115. Containment bag 135 is designed to break on target impact by projectile 100. In an embodiment, containment bag 135 is designed to remain intact on target impact by projectile 100. "

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Please change paragraph [0028] which appears on page 9, line 7, through line 20, as follows:

" [0028] FIG. 3 is a diagram of a 40 mm projectile 300 (projectile 300) showing a cut-away view of projectile 300. Projectile 300 comprises windshield 105 and back end 110. A gel 305 is placed in one or more sealed glass vials 310. Gel 305 comprises, for example, water, propylene glycol (optional), salt NaCl (optional) and hydroxyethyl cellulose (optional). Glass vials 310 are commonly manufactured in industry by melting the ends of glass tubes. Glass vials 310 are surrounded by heat chemicals 315 comprising, for example, calcium chloride, or ~~and/or~~ sodium acetate, ~~or other salts~~. The glass vials 310 are held apart by a plastic piece, ~~term~~ a ~~or~~ composite spider 320. The glass vials 310 slide into and are held apart by holes in the spider 320. Some ~~In an embodiment, some~~ of the glass vials 310 are filled with silicone liquid and ~~or~~ gel 140. In another embodiment, the glass vials 310 are ~~may be~~ placed directly into the heat chemicals 315."

Please change paragraph [0034] which appears bridging page 11, last line, through page 12, line 13, as follows:

" [0034] The mortar projectile 500 and tank and artillery projectiles 600 may utilize the same alternate embodiments as shown for the 40mm projectile 100, 200, 300, 400 in FIGS. 1, 2, 3, and 4. In addition, heat chemicals 115, 315 and optional chemilucifer chemicals 230 may be placed into any non-lethal projectile. ~~One such non-lethal projectile is taught in DAR-2003-434.~~ The projectiles 100, 200, 300, 400, 500, and 600 are assembled as depicted in FIGS. 1, 2, 3, 4, 5, and 6 and are then loaded into cartridges. The cartridges consist of a cartridge case, primer with a propellant system and the projectile. All these parts are common to the ammunition industry and assembled in accordance with the industry standard. The assembled cartridge is chambered in a gun in a manner similar to all other ammunition that is fired from a gun. The chamber is closed and the cartridge is fired in the same manner as all other ammunition. "

Please change paragraph [0039] which appears on page 14, line 1, through line 11, as follows

" [0039] If the user requires a heat trace and a light trace from the optional chemilucent then in addition to the windshield 105 being made of a heat conducting material it must also be transparent or translucent to allow the light to pass through. If the user requirement is to have mark on the target only with no trace of the projectile flight then the windshield 105 and back end 110 or 150 must be opaque (to prevent light passage, only if optional chemilucent are used) ~~and/or~~ made of a material that does not conduct heat. A paint or inner liner to prevent

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the heat from coming through the windshield 105 or back end 110 or 150 may also be used to prevent a heat trace or light trace of the projectile flight to the target. "

Please change paragraph [0040] which appears on page 14, line 12 through the last line of page 14, as follows:

" [0040] The heat conducting windshield 105 or back end 110 or 150 of projectiles 100, 200, 300, 400, 500, and 600 allows heat emitted by heat chemicals 115, 315 to be visible to an observer, providing a trace of the flight path to the target using NVD or heat vision equipment. In an embodiment, light emitted by optional chemiluminescent chemicals 230 is visible to an observer through a transparent or translucent windshield 105 or back end 110 or 150. If the windshield 105 or back end 110 or 150 of projectile is opaque, the observer does not see any light emitted by the projectile 100, 200, 300, 400, 500, 600 during flight. Likewise, if the windshield 105 and back end 110 or 150 is opaque and does not conduct heat then no heat or light trace of the projectile flight will be seen, only a mark on the target will be seen after the windshield 110 breaks and deposits the heat chemicals on target. "